

L8 ANSWER 18 OF 19 MEDLINE on STN
 AN 82275342 MEDLINE
 DN PubMed ID: 6810382
 TI Assay of plasma endogenous inhibitor(s) of prostaglandin
 synthase using an enzyme incubation - radioimmunoassay
 method.
 AU Brennecke S P; Humphreys J; Turnbull A C; Mitchell M D
 SO Prostaglandins, leukotrienes, and medicine, (1982 Jun) Vol. 8, No. 6, pp.
 615-34.
 Journal code: 8206868. ISSN: 0262-1746.
 CY SCOTLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 198210
 ED Entered STN: 19900317
 Last Updated on STN: 19900317
 Entered Medline: 19821012

L8 ANSWER 19 OF 19 MEDLINE on STN
 AN 79235017 MEDLINE
 DN PubMed ID: 466792
 TI A new screening system for nonsteroidal anti-inflammatory drugs based upon
 inhibition of chemiluminescence produced from human cells (granulocytes).
 AU Van Dyke K; Van Dyke C; Udeinya J; Brister C; Wilson M
 SO Clinical chemistry, (1979 Sep) Vol. 25, No. 9, pp. 1655-61.
 Journal code: 9421549. ISSN: 0009-9147.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 197910
 ED Entered STN: 19900315
 Last Updated on STN: 19900315
 Entered Medline: 19791026

=> abs

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 LAST RELOADED: Feb 24, 2006 (20060224/UP).

=> d abs 18 18-19

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L8 ANSWER 18 OF 19 MEDLINE on STN

AB A simple, reliable method with validations is described for the routine measurement of endogenous inhibitor(s) of prostaglandin synthase in blood plasma. Appropriate dilutions of plasma samples are incubated with bovine seminal vesicle prostaglandin synthase, sodium arachidonate and reduced glutathione. Prostaglandin E2 production is then quantitated by radioimmunoassay. The relative inhibitory potency of plasma samples is determined by comparison of prostaglandin E2 content in sample incubations with that of control incubations containing no plasma dilution. Possible applications and the suitability of this methodological approach are discussed.

L8 ANSWER 19 OF 19 MEDLINE on STN

AB A new screening system for nonsteroidal anti-inflammatory drugs that involves use of human phagocytic cells has been developed in which chemiluminescence measurement is used. Luminol-dependent chemiluminescence is measured after the addition of opsonized (coated with antibodies and complement) zymosan particles to human granulocytic leukocytes in the presence or absence of drugs. Of all the compounds tested, indomethacin was the most potent in blocking chemiluminescence, with measurable inhibitory activity at 5 $\mu\text{mol/L}$. The order of inhibitory potency at 0.1 mmol/L and in the presence of Ca^{2+} and Mg^{2+} was indomethacin greater than sodium salicylate greater than fenoprofen greater than tolmetin greater than naproxen greater than ibuprofen. It is likely that the active compound itself must be added to the system because aspirin did not inhibit chemiluminescence, whereas its metabolite, sodium salicylate, was markedly inhibitory. Dexamethasone and methylprednisolone also did not inhibit chemiluminescence. The drugs that inhibit chemiluminescence are also known inhibitors of prostaglandin synthase (cyclooxygenase portion).